Dec. 17, 1935. A. J. WESTVEER 2,024,899

TOY BUILDING BLOCK SET

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Fig. 1.

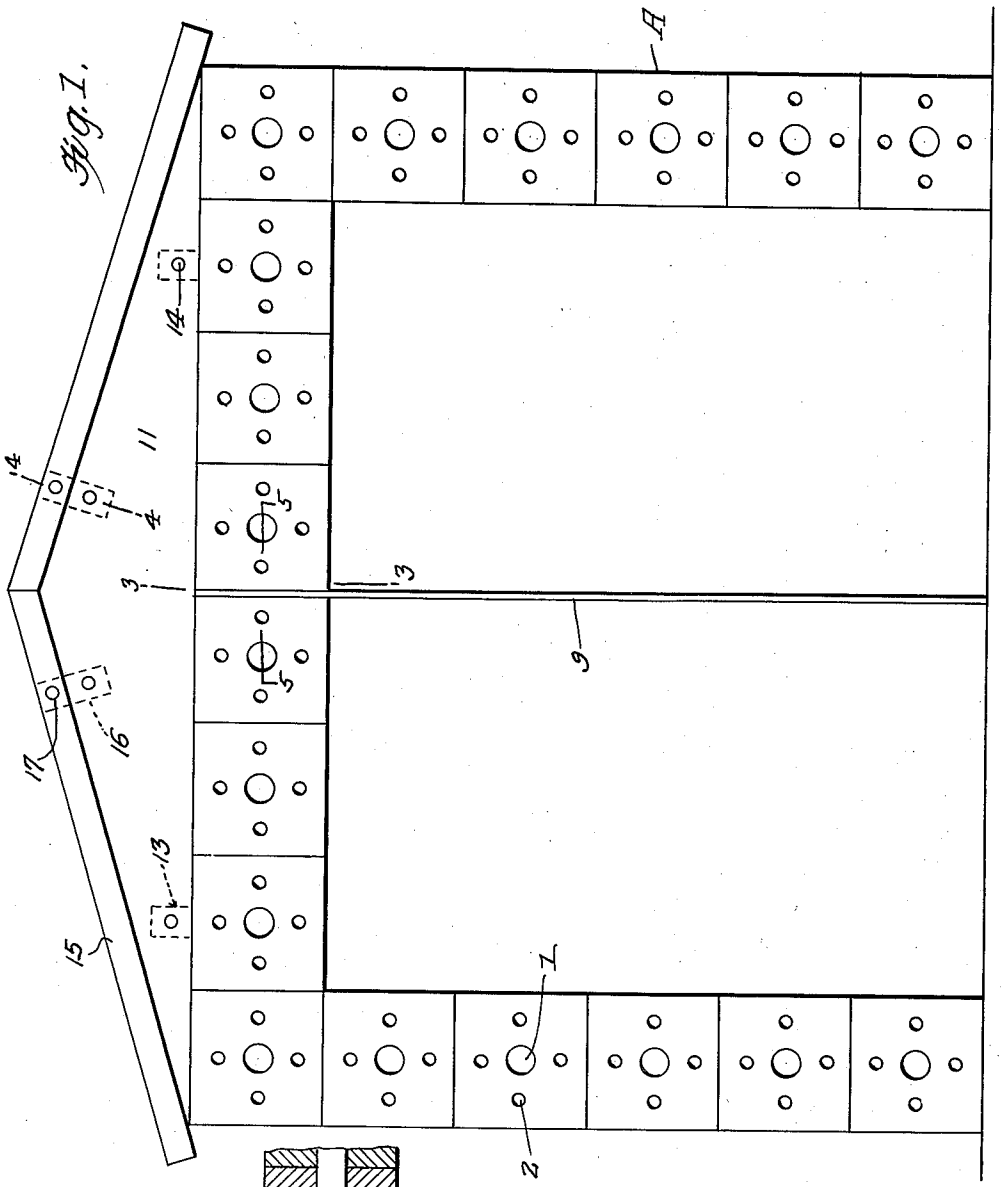
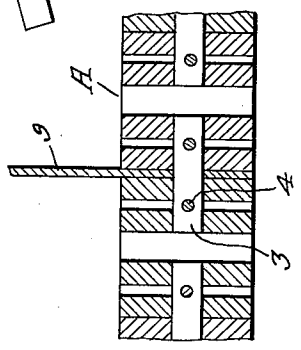


Fig. 5.



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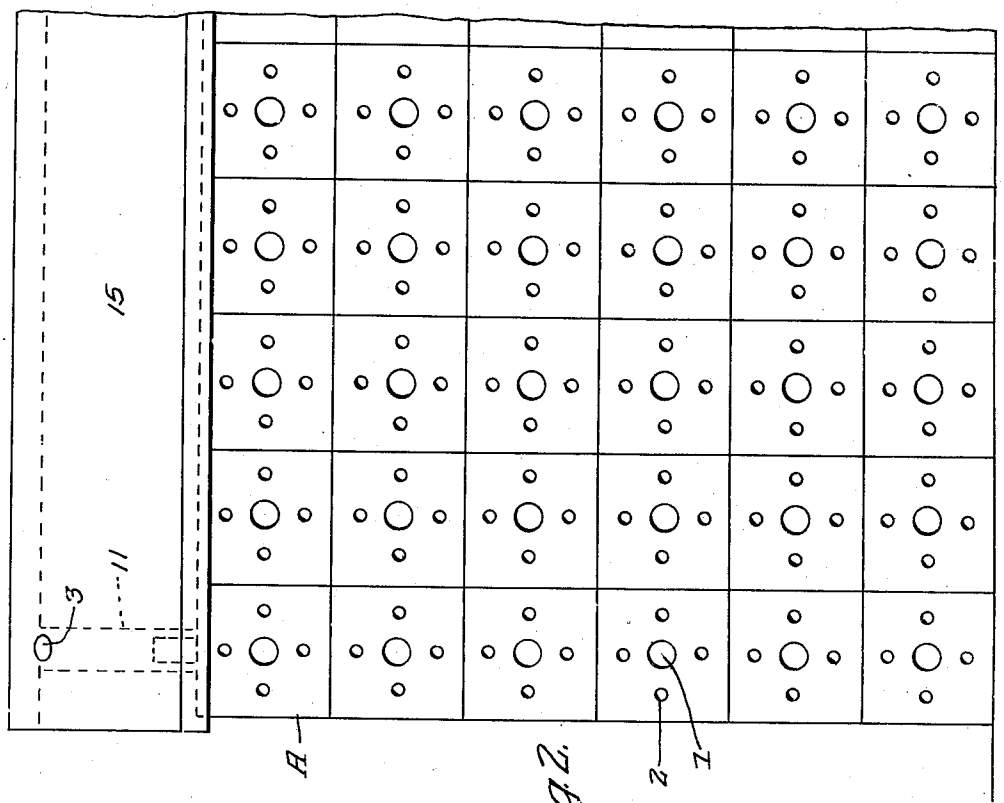


Fig. 2.

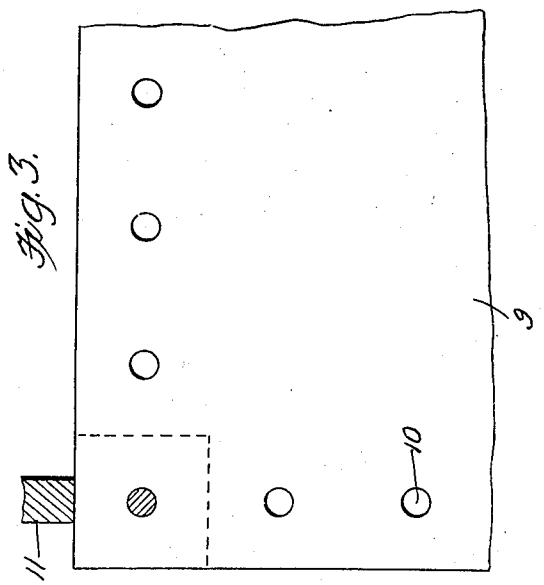


Fig. 3.

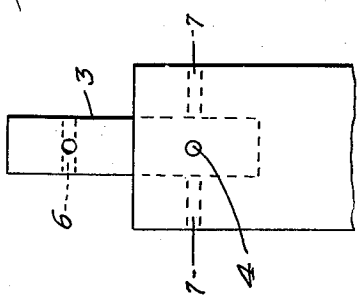


Fig. 6.

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TOY BUILDING BLOCK SET

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Fig. 8.

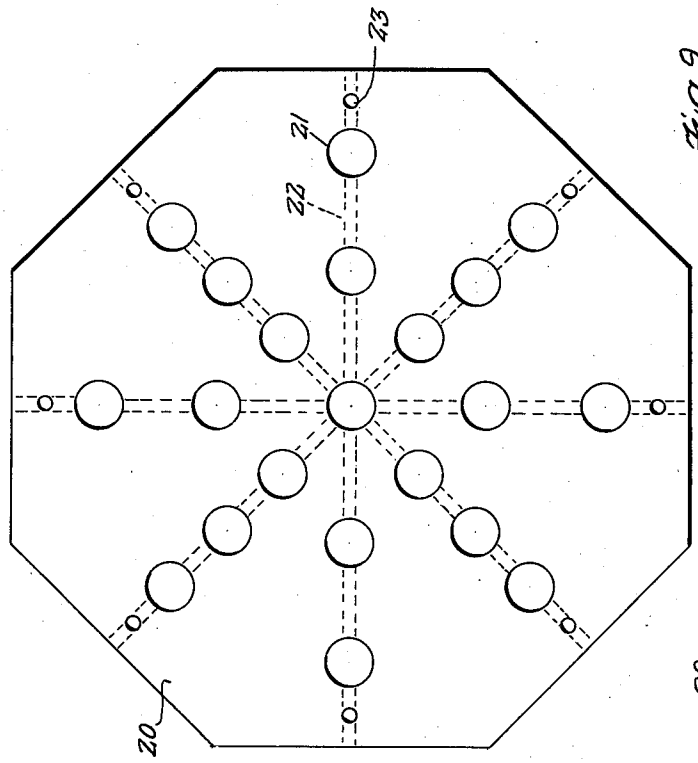


Fig. 9.

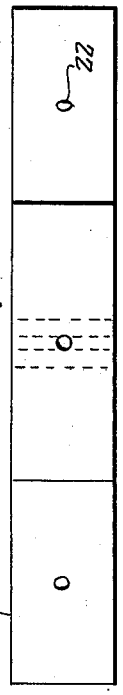


Fig. 10

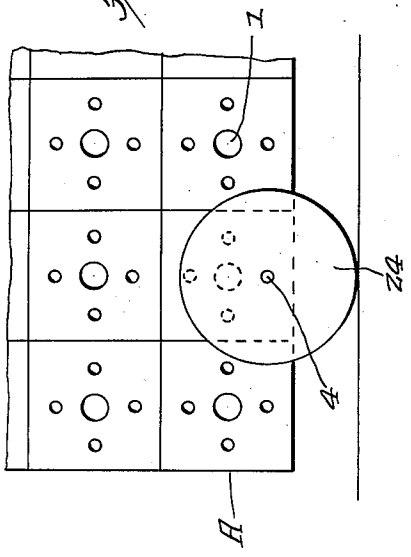


Fig. 4.

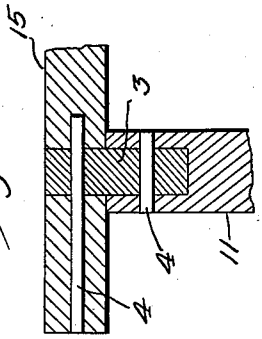
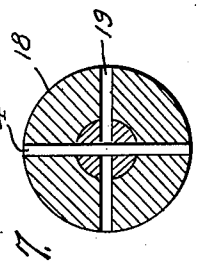


Fig. 7.



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UNITED STATES PATENT OFFICE

2,024,899

TOY BUILDING BLOCK SET

Adrian J. Westveer, Fort Riley, Kans.

Application April 30, 1935, Serial No. 19,112

2 Claims. (Cl. 46—19)

This invention relates to a set of toy building blocks, the general object of the invention being to provide a plurality of blocks having large and small holes therein with main pins for engaging the large holes and small pins for locking the main pins to the blocks so that various kind of structures can be built with the blocks.

Another object of the invention is to provide a plurality of disks having centrally arranged holes therein for receiving some of the pins so that a wheeled vehicle can be formed from some of the blocks and the disks.

This invention also consists in certain other features of construction and in the combination and arrangement of several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a front view of a building structure constructed with the blocks.

Figure 2 is a fragmentary side view of Figure 1.

Figure 3 is a fragmentary section on the line 3—3 of Figure 1.

Figure 4 is a section on the line 4—4 of Figure 1.

Figure 5 is a section on the line 5—5 of Figure 1.

Figure 6 is a fragmentary elevation showing a post with a main pin inserted into the upper end thereof.

Figure 7 is a section on the line 7—7 of Figure 6.

Figure 8 is a top plan view of a board-like block.

Figure 9 is an edge view of Figure 8.

Figure 10 is a fragmentary elevation of a vehicle structure.

In these drawings the letter A indicates a plurality of main blocks, each block being provided with a number of large holes 1 which are centrally arranged and have their ends opening out through the six faces of the block and each hole 1 has equally spaced therefrom the four holes 2, these holes being smaller in diameter than the holes 1. I also provide a plurality of main pins 3 engaging the holes 1 and a plurality of locking pins 4 for engaging the holes 2, the pins 3 having a pair of intersecting holes 6 adjacent each end thereof, each pair of holes being arranged at right angles to each other to receive the locking pins 4.

Thus it will be seen that by using the main pins 3 and the locking pins 4 the blocks can be fastened together to construct various buildings and other structures.

The set also comprises one or more plates 9 each of which has holes 10 therein for receiving some of the pins 3 with portions of the plates lying between two of the blocks. For instance, one of these plates can be used as a partition as shown in Figure 1 or it may be used as a floor or the like.

The set also includes a plurality of gables 11 which are used as shown in Figures 1, 2 and 3. Each gable forming member has holes 13 at its edges for receiving some of the pins 3 and a hole 14 intersects each hole 13 for receiving a pin 4 so that a gable forming member can be locked with some of the blocks.

The set also includes the roof forming members 15, as shown in Figures 1 and 2, and each of these members has the holes 16 and the small intersecting holes 17 therein for permitting the members to be locked to a gable or other part by a large pin and a small pin or a number of said pins.

The set also includes a plurality of posts 18 which may be of circular shape in cross section as shown in Figure 7 or square or any other suitable shape. Each post has an opening in both ends for receiving a pin 3 and intersecting small openings 19 for receiving the pins 4.

I also provide a plurality of large blocks 20 which may be of different sizes so as to construct a tower, for instance, with these blocks and the posts and the pins though it will, of course, be understood that these blocks 20 can be used for any purpose desired. Each block is provided with the radiating rows of holes 21 for the large pins 3, the intersecting small holes 22 for the small pins 4 and adjacent the margin each block is formed with the small holes 23 which pass from one face to the other for receiving some of the pins 4.

I also provide a plurality of wheel forming disks 24 so that some of the blocks can be used for building a vehicle, as shown in Figure 6, the disks 24 forming the wheels of the vehicle and are fastened to some of the blocks by pins 4 passing through holes in the centers of the disks and into small holes 2 of the blocks A.

It will, of course, be understood that blocks of various shapes and sizes can be used and the holes can be so arranged and different blocks can

be attached to other blocks by the pins 3 and the small pins 4.

The blocks A form the main blocks and all the other blocks are based as to size on the sizes of these main blocks, that is, the other blocks should be of such dimensions so as to be used with the main blocks. In other words, these other blocks should be equal in length with a number of the main blocks placed together and equal in width to a number of the main blocks placed together and, of course, the holes should be made to receive the pins 3 for the main blocks.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What is claimed is:—

1. A toy building block set comprising a plurality of main blocks, each of rectangular shape in cross section and each block having three centrally arranged large holes therein, each hole passing from one face through the opposite face, said holes being arranged at right angles to each other and each block having three sets of small holes passing therethrough, each set of small holes being composed of four holes spaced equal distances from each other around a large hole and intersecting the other large holes, a plurality of large pins for fitting in the large holes, said large pins having small holes passing transversely therethrough, and a plurality of small pins for passing through the small holes in the blocks and the small holes in the pins, said large and small pins acting to connect the blocks together.

2. A toy building block set comprising a plurality of main blocks, each of rectangular shape in cross section and each block having three centrally arranged large holes therein, each hole passing from one face through the opposite face, said holes being arranged at right angles to each other and each block having three sets of small holes passing therethrough, each set of small holes being composed of four holes spaced equal distances from each other around a large hole and intersecting the other large holes, a plurality of large pins for fitting in the large holes, said large pins having small holes passing transversely therethrough, and a plurality of small pins for passing through the small holes in the blocks and the small holes in the pins, said large and small pins acting to connect the blocks together, and auxiliary members having large holes therein for receiving some of the large pins, and small holes intersecting the large holes for receiving small pins for locking said auxiliary members to some of the main blocks.

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